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NEW HAMPSHIRE AGRICULTURAL
EXPERIMENT STATION
DURHAM, N. H.

RESULTS OF SEED TESTS

Made July 1, 1927 to June 30, 1928

The total number of seed samples tested in the Experiment Station laboratory this year was three hundred seventy-seven. Of this number three hundred fourteen were official samples which are reported in this bulletin. In addition to these sixty-three private samples were tested. The official samples were collected by an agent of the Commissioner of Agriculture and sent to the seed testing laboratory where purity analyses and germination tests were made in order to ascertain if each sample was of as good quality as its accompanying guarantee indicated.

A certain amount of variation is to be expected in comparing the results of two or more purity analyses. For this reason a "tolerance" or variation is allowed in accordance with the following formula, applied to the guarantee given. The sample is considered as being made up of two parts, the one being the pure seed and the other the balance of the sample. The tolerance in per cent allowed for each part is two-tenths of 1 per cent plus 20 per cent of the lesser part. For instance, if a sample is guaranteed 99.60% pure seed, it may test as low as 99.32% or as high as 99.88% and would be "satisfactory". In the same way, a sample guaranteed 92.80% may test as low as 91.17% or as high as 94.43% and be "satisfactory". If a sample is found to be better than the highest figure in the tolerance, it is marked "above" in this bulletin; if lower than the lowest figure, the actual figure is reported.

A wider germination tolerance is allowed between the results of the test and the guarantee, as follows:

Guarantee	Allowable variation
%	%
90 or over	6
80 or over but less than 90	7
70 or over but less than 80	8
60 or over but less than 70	9
Less than 60	10

Accordingly, a sample guaranteed 92% germination is "satisfactory" if it tests 86% to 98%. A sample guaranteed 85% may fall as low as 78% or as high as 92. If a sample tests higher than the per cent of variation allowed it is marked "above" in this bulletin or, if it tests below the variation allowed, the actual figure is reported.

The summary table on the last page will show the general results of the seed inspection work for the year ending June 30, 1928. It may be noted that a large proportion of the samples were found to be satisfactory. In purity 92% of all samples were found satisfactory or better in purity, and in germination 85% were found satisfactory or better.

The following is a copy of the New Hampshire law relative to seed inspection according to Chapter 80, Session Laws of 1921:

STATE DEPARTMENT OF AGRICULTURE

AN ACT TO REGULATE THE SALE OF AGRICULTURAL SEEDS

SECTION 1. That the term "agricultural seeds" or "agricultural seed" as used in this act, shall be defined as the seeds of timothy, redbtop, alfalfa, alsike clover, crimson clover, red clover, sweet clover, white clover, Hungarian millet, fescues, Canada blue grass, Kentucky blue grass, brome grass, tall meadow oat grass, orchard grass, Italian rye grass, perennial rye grass, sudan grass, Canada field peas, cowpeas, soy beans, vetches and other grasses and forage plants including turnips, rutabagas and mangles, also barley, buckwheat, corn, oats, rye, wheat and other cereals which are sold, offered or exposed for sale within this state for sowing or seeding purposes.

SECT. 2. Every lot or parcel of agricultural seeds, as defined in section 1 of this act when in bulk packages or other containers of one (1) pound or more, shall have affixed thereto, in a conspicuous place on the exterior of the container, a plainly written or printed statement clearly and truly certfying: *First*, the commonly accepted

name of such agricultural seed; *second*, its approximate percentage of purity or its freedom from foreign matter or from other seeds distinguishable by their appearance, and, in the case of "special mixtures," the statement shall contain the name and approximate percentage by weight of each kind of agricultural seed in such mixture in excess of five (5) per cent by weight of the total mixture; *third*, the approximate percentage of germination of such agricultural seed together with the month and year said seed was tested; *fourth*, the full name and address of the vender of such agricultural seed.

SECT. 3. No person shall sell, or expose for sale, garden seeds or flower seeds in tied or sealed packets unless the same are plainly marked with the year in which the seed was tested.

SECT. 4. The word "approximate" as used in this act shall be defined in rules and regulations provided by the state commissioner of agriculture who shall be guided by the "rules and methods of testing" adopted and approved by the Association of Official Seed Analysts of North America.

SECT. 5. The percentage of purity and of germination of agricultural seeds as required to be shown by section 2 of this act shall be based upon tests or analyses conducted either by the state commissioner of agriculture or his agents, or by the seed merchant or his agents, *provided* that such tests or analyses made by the seed merchant or his agents shall conform to the reasonable regulations which said commissioner is hereby authorized to prescribe, or to the regulations or methods of testing adopted by the Association of Official Seed Analysts.

SECT. 6. The duty of enforcing the provisions of this act shall be vested in the state commissioner of agriculture. The said commissioner, upon notice to the seed merchants of this state through bulletins of his department or of the agricultural experiment station, shall be empowered to prescribe such reasonable rules and regulations and to appoint such analysts, agents and inspectors as may be necessary to secure the efficient enforcement of this act. It shall be the duty of said commissioner to publish, or cause

to be published, the results of tests and analyses of samples of agricultural seeds drawn as hereinafter provided, together with the names and addresses of the persons from whom the samples of seed were obtained. In his discretion, also, the said commissioner may publish such other information as he may deem advisable concerning the value, character and use of certain seeds.

SECT. 7. It shall be the duty of said commissioner either by himself or through his duly authorized agents, to inspect, sample, analyze and test any agricultural seeds sold, offered or exposed for sale for seeding purposes within this state, at such time and place and to such extent as he may determine. The commissioner and his inspectors shall have access at all reasonable hours to any premises or structures to take samples of any such agricultural seeds as may be in the possession of any importer, merchant, or agent, and he is hereby given authority in person or by his inspectors, upon notice to the importer, merchant or agent to take for analysis a composite sample of such agricultural seeds.

Said sample shall be taken from a parcel or number of packages which shall not be less than five (5) per cent of the whole lot inspected and shall be thoroughly mixed. From this composite sample two official samples shall be taken, each of which shall be securely sealed. One of these official samples shall be furnished to the seed merchant or party in interest, and the other retained by the commissioner or his inspector for test and analysis.

SECT. 8. In case a sample drawn as provided in the preceding section is found upon test and analysis to fall below the statement on the label attached to the lot or container from which said sample was secured, or if any agricultural seeds which are not properly labeled are being sold, offered or exposed for sale within the state, the commissioner of agriculture is hereby empowered to seize and hold such seed until proper labeling is effected by the owner or seller of said seed.

SECT. 9. It shall be unlawful for any person, firm or corporation to sell, offer or expose for sale within this state for seeding purposes any agricultural seeds or mixture thereof, as defined in this act, without complying with the requirements of the act, or to falsely mark or label any agricultural seeds or to interfere in any way with the commissioner of agriculture or his inspectors in the discharge of the duties herein named.

SECT. 10. Every violation of the provisions of this act relating to failure to label, or false labeling, shall be deemed a misdemeanor punishable by a fine not exceeding one hundred dollars. If the commissioner of agriculture shall find upon examination, test or analysis, that any person, firm or corporation has violated any of the provisions of this act, he or his duly authorized agent may institute proceedings in a court of competent jurisdiction to have such person, firm or corporation convicted therefor, or the said commissioner, in his discretion, may report the results of such examination or tests to the attorney-general, together with a sworn statement of the analyst and such other evidence of said violation as may have come to his knowledge or into his possession.

SECT. 11. Any citizen of this state shall have the privilege of submitting to the state commissioner of agriculture samples of agricultural seeds for test and analysis, subject to such rules and regulations as may be adopted by said commissioners; *provided, however*, that the commissioner of agriculture may by such regulations fix the maximum number of samples that may be tested or analyzed free of charge for any one citizen in any one period of time and fix charges for tests and analyses of samples submitted in excess of the number tested free of charge.

SECT. 12. Chapter 61, Laws of 1909, as amended by chapter 89, Laws of 1915, and all acts or parts of acts inconsistent herewith are hereby repealed.

SECT. 13. This act shall take effect September 1, 1921.
Approved April 8, 1921.

SEED EXAMINATION, 1928

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaranteed	F'nd	Guaranteed
6868	Alfalfa (Pedigreed, 2359)	S	99.78	S	94
	Chase Grain Mill, Plymouth				
6808	Alfalfa (Grimm)	S	99.50	S	90
	E. C. Foss Co., Rochester				
6827	Alfalfa (Blackfoot Grimm)	S	99.50	S	90
	Hill Hdw. & Paint Co., Nashua				
6863	Alfalfa (Grimm)	S	99.50	S	92
	Keegan and French, Franklin				
6711	Alfalfa (Canada Grimm)	S	99.14	67.5	94
	McQuesten & Lewis, Manchester				
6682	Alfalfa (Grimm, Pine Tree, 27599)	S	99	S	91
	Merrimack Farmers Exchange, Manchester				
6786	Alfalfa (Grimm Idaho, 27695)	S	99.64	S	96
	J. H. Seavey, Dover				
6725	Alfalfa (Grimm, 27678-79)	S	99.68	S	96
	Thompson & Hoague Co., Concord				
6678	Alfalfa (Idaho Grimm, Pine Tree, 27629)	S	99	S	90
	John B. Varick Co., Manchester				
6807	Alsike (Pine Tree, 2115)	S	97.10	S	93
	Ayers & Jenkins Co., Rochester				
6938	Alsike (Pan American)	S	97.50	S	90
	F. W. Clark, Wilton				
6924	Alsike (21853)	90.49	95.35	A	90
	A. F. Clement & Son, Lisbon				
6866	Alsike (Liberty, 2426)	S	97	S	93.75
	Farmer's Grain Store, Ashland				
6765	Alsike	91.26	97	70.5	86
	Hilliard & Kimball, Exeter				
6917	Alsike (XXX)	S	93	75.5	92
	Holbrook Grocery Co., Woodsville				
6920	Alsike (XX)	A	84	A	85
	Holbrook Grocery Co., Woodsville				
6819	Alsike (Liberty, 2508)	S	97.57	S	96.75
	J. Jones & Son, Alton				
6718	Alsike (Pan American)	A	92.52	S	90
	Manchester Grain Co., Manchester				
6706	Alsike	96.96	99.50	S	85
	Manchester Hardware Co., Manchester				
6714	Alsike (Pine Tree, 2161)	S	97.65	S	94
	McQuesten & Lewis, Manchester				
6860	Alsike (Acc. 2183)	S	94.30	S	92
	Meredith Grain Co., Meredith				
6740	Alsike (Pine Tree, 2139-40)	S	97.75	S	95
	Merri. Farmer's Exchange, Concord				
6697	Alsike (Pan American)	S	97.50	S	90
	J. J. Moreau & Son, Manchester				
6837	Alsike (Pan American)	S	97	S	90
	Nashua Grain Co., Nashua				
6771	Alsike	S	97	S	97
	F. W. Neal & Co., Dover				
6791	Alsike (Eureka)	S	98	S	90
	F. W. Neal & Co., Dover				
6927	Alsike (Pan American)	S	97	S	90
	Pike & Gale, Littleton				
6878	Alsike (Eureka)	94.69	98	S	90
	C. N. Roberts, Meredith				
6778	Alsike (Pine Tree, 21854)	S	94	S	90
	J. H. Seavey, Dover,				

A=Above.

S=Satisfactory.

SEED EXAMINATION, 1928 — Continued.

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaranteed	F'nd	Guaranteed
6884	Alsike (Imperator)	S	97	S	90
	C. P. Stevens Co., Franklin				
6795	Alsike	A	95	S	90
6727	Strafford Co. Grain Mill, Rochester				
	Alsike (Ace 2141)	S	96.60	S	93
	Thompson & Hoague Co., Concord				
6754	Alsike	A	96	S	96
	A. J. Turcotte, Newmarket				
6755	Alsike (Choice)	S	98	S	90
	A. J. Turcotte, Newmarket				
6653	Alsike (Ace, 211001)	S	95	S	87
6656	John B. Varick Co., Manchester				
	Alsike (Pine Tree, 21790)	S	97	S	93
	John B. Varick Co., Manchester				
6812	Alsike	S	98	S	90
	E. T. Willson, Farmington				
6751	Alsike (Pan American)	S	97	S	90
	W. A. Young, Exeter				
6850	Barley (6-row)	S	99	S	90
	Bell Hardware Co., Derry				
6955	Barley (6-row, White Mtn.)	S	99	S	92
	J. Cushing Co., Peterborough				
6880	Barley (Extra Fancy, White Mtn.)				
	C. J. Goss, Lakeport	S	98.40	S	94
6919	Barley (6-row, Monadnock)	S	99.37	S	96
	Holbrook Grocery Co., Woodsville				
6895	Barley (6-row, 71152)	S	98.39	S	92
	H. G. Holton, Lancaster				
6792	Barley (2-row, 71127)	95.71	97.20	S	94
	Jenness Hardware Co., Dover				
6875	Barley (6-row, 71153)	S	98	S	95
	Meredith Grain Co., Meredith				
6690	Barley (6-row)	S	98	S	90
	J. J. Moreau & Son, Manchester				
6963	Barley (2-row, 7127)	S	98	S	90
	C. A. Perkins, Charlestown				
6783	Barley (2-row)	S	99	S	90
	S. A. Schurman & Son, Portsmouth				
6776	Barley (6-row, 71133)	S	98.74	S	94
	J. H. Seavey, Dover				
6724	Barley (71321, 6-row)	S	98.50	S	96
	Thompson & Hoague Co., Concord				
6658	Barley (6-row, 7196)	S	99	S	96
	John B. Varick Co., Manchester				
6730	Bluegrass, Kentucky (Choice)	S	80	S	80
	Capitol Hardware Co., Concord				
6687	Bluegrass, Kentucky (032702)	S	86.20	S	80
	Manchester Hdw. Co., Manchester				
6721	Bluegrass, Kentucky (032875)	S	83.50	63.5	81
	Thompson & Hoague Co., Concord				
6654	Bluegrass, Kentucky	S	80	S	72
	John B. Varick Co., Manchester				
6703	Buckwheat, Japanese (7658)	S	99	S	95
	Manchester Hdw. Co., Manchester				
6739	Buckwheat, Japanese, (76318)	S	99.50	S	96
	Merrimack Farmer's Exchange, Concord				
6743	Buckwheat, Japanese (6743)	S	98	S	93
	Thompson & Hoague Co., Concord				

A=Above.

S=Satisfactory.

SEED EXAMINATION, 1928 — Continued.

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaranteed	F'nd	Guaranteed
6693	Canada Field Peas	S	98	S	90
6773	J. J. Moreau & Son, Manchester Canada Field Peas (85169)	S	99.50	S	92
6679	J. H. Seavey, Dover Corn (Improved Leaming)	S	98	S	90
6692	J. J. Moreau & Son, Manchester Corn (Longfellow)	S	98	S	85
6667	J. J. Moreau & Son, Manchester Corn (Early 8-row Canada, 7424)	S	99	S	85
6669	John B. Varick Co., Manchester Corn (Improved Leaming, 7375)	S	99	S	91
6652	John B. Varick Co., Manchester Crimson Clover	A	97	S	80
6651	John B. Varick Co., Manchester Mangle-Wurzel (Golden Tankard)	S	98	62.5	—
6655	John B. Varick Co., Manchester Mangles (Narbitan Giant)	S	98	66	—
6821	John B. Varick Co., Manchester Millet, Golden	S	98	S	92
6966	W. F. Peel, Nashua Millet, Hungarian	A	98	S	90
6802	Abbott Grocery Co., Keene Millet, Hungarian (4771)	S	98.45	77.5	88
6842	Ayers & Jenkins, Rochester Millet, Hungarian	97.61	99	S	90
6809	Bell Hardware Co., Derry Millet, Hungarian	S	98	S	91
6946	P. W. Bragg, Farmington Millet, Hungarian	A	98.10	69	92
6797	W. A. Bryer, Peterborough Millet, Hungarian (6157)	S	98.76	S	86
6890	Freeman Carson, Rochester Millet, Hungarian	A	98	52	80
6891	Chase Grain Mill, Plymouth Millet, Hungarian	S	99.08	72	87
6937	G. G. Cummings, Bristol Millet Hungarian (4777)	A	97.04	S	80
6918	J. Cushing Co., Peterborough Millet, Hungarian (Fancy)	97.64	99	75	88
6761	Depot Store, Littleton Millet, Hungarian (Fancy)	95.48	99	43.5	90
6762	J. H. Griffin, Newmarket Millet, Hungarian	A	98	S	80
6825	J. H. Griffin, Newmarket Millet, Hungarian (Fancy)	S	99	80	90
6764	Hill Hdw. & Paint Co., Nashua Millet, Hungarian (Fancy)	S	99	78.5	90
6923	Hilliard & Kimball, Exeter Millet, Hungarian (XX)	A	97	S	80
6953	Holbrook Grocery Co., Woodsville Millet, Hungarian	A	90	S	85
6972	J. H. Kiniry, Claremont Millet, Hungarian (XX)	S	98.90	S	90
6686	Lewis Brothers, Lebanon Millet, Hungarian	S	99.44	71	88
6712	Manchester Hdw. Co., Manchester Millet, Hungarian (4762)	S	99.44	61	80
6861	McQuesten & Lewis, Manchester Millet, Hungarian (4778)	S	96.88	S	85
6691	Meredith Grain Co., Meredith Millet, Hungarian (Fancy)	S	98	74	90
	J. J. Moreau & Son, Manchester				

A=Above.

S=Satisfactory.

RESULTS OF SEED TESTS, 1928

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SEED EXAMINATION, 1928 — Continued.

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaranteed	F'nd	Guaranteed
6855	Millet, Hungarian (047559) J. H. Morrill, Laconia	S	97.40	S	88
6851	Millet, Hungarian Parker Brothers, Goffstown	S	99	60	96
6829	Millet, Hungarian W. F. Peel, Nashua	S	98.36	S	80
6941	Millet, Hungarian (4775) W. N. Potter & Son, Winchester	S	97.40	S	85
6859	Millet, Hungarian (Fancy) H. C. Sanborn, Laconia	A	98	S	90
6784	Millet, Hungarian (Fancy) S. A. Schurman & Son, Portsmouth	A	98	70.5	90
6789	Millet, Hungarian (4770) J. H. Seavey, Dover	96.57	98.70	S	80
6726	Millet, Hungarian (4768) Thompson & Hoague Co., Concord	S	97.28	S	85
6759	Millet, Hungarian A. J. Turcotte, Newmarket	S	98	49	90
6671	Millet, Hungarian (4772) John B. Varick Co., Manchester	S	98.02	S	83
6964	Millet, Japanese Abbott Grocery Co., Keene	82.16	95.01	66.5	82
6801	Millet, Japanese (35-C28) Ayers & Jenkins, Rochester	S	96.70	77	88
6968	Millet, Japanese P. E. Belisle, Hillsborough	S	96.83	73	83
6847	Millet, Japanese Bell Hardware Co., Derry	85.19	97	61.5	90
6813	Millet, Japanese P. W. Bragg, Farmington	S	97	S	90
6869	Millet, Japanese (Liberty, 2472) A. F. Burr Co., Plymouth	S	95.87	S	85.50
6893	Millet, Japanese (7703) Chase Grain Mill Plymouth	S	96.10	S	90
6760	Millet, Japanese (Fancy) J. H. Griffin, Newmarket	95.71	97	S	90
6974	Millet, Japanese (Fancy) C. W. Hildreth & Son, Lebanon	S	97	S	86
6834	Millet, Japanese (Fancy) Hill Hdw. & Paint Co., Nashua	S	96	75	90
6932	Millet, Japanese (4472) Holbrook Grocery Co., Woodsville	90.90	94.30	S	72
6903	Millet, Japanese (4481) H. G. Holton, Lancaster	S	92.20	S	80
6897	Millet, Japanese (4480) Leavitt, Gould & Hurlbert, Colebrook	S	98.11	S	80
6684	Millet, Japanese (4467) Manchester Hdw. Co., Manchester	S	96.84	A	80
6685	Millet, Japanese (4477) McQuesten & Lewis, Manchester	S	97.65	S	92
6705	Millet, Japanese (Fancy) J. J. Moreau & Son, Manchester	89.28	97	S	90
6888	Millet, Japanese J. H. Morrill, Laconia	S	95.93	S	86.50
6836	Millet, Japanese (Fancy) Nashua Grain Co., Nashua	S	95	S	80
6843	Millet, Japanese (Fancy) W. F. Neal, Derry	78.45	97	S	85
6828	Millet, Japanese W. F. Peel, Nashua	A	95	S	90
6949	Millet, Japanese Rand, Ball & King Co., Claremont	95.35	97.81	S	82

A=Above.

S=Satisfactory.

SEED EXAMINATION, 1928 — Continued.

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaranteed	F'nd	Guaranteed
6781	Millet, Japanese	91.44	98	S	85
6774	S. A. Schurman & Son, Portsmouth Millet, Japanese (4474)	S	99.51	S	85
6736	J. H. Seavey, Dover Millet, Japanese (4477)	S	97.40	75.5	95
6753	Thompson & Hoague Co., Concord Millet, Japanese	S	95	S	86
6673	A. J. Turcotte, Newmarket Millet, Japanese (4477)	S	97.65	S	90
6804	John B. Varick Co., Manchester Oats (73113)	S	99	S	95
6846	Ayers & Jenkins, Rochester Oats (Fancy)	S	98	S	90
6957	Bell Hardware Co., Derry Oats (White Mountain)	S	96.50	S	95
6844	F. W. Clark, Wilton Oats (Granite State)	S	98.50	S	91
6961	Derry Farmers' Exchange, Derry Oats (Crosby's Fancy)	S	99	S	97
6746	D. O. Devens, Hancock Oats (No. 2, Ohio Recleaned)	99.07	—	92	—
6951	S. A. Dow & Son, North Hampton Oats (White Mountain, Swedish)	S	99	S	98
6823	George H. Eames & Son, Keene Oats (Natural)	S	95	S	95
6794	Fessenden Co., Inc., Londonderry Oats (Swedish Type, 73117)	S	97.50	S	94
6898	Jenness Hardware Co., Dover Oats (Swedish Type, 073542)	S	99	S	95
6775	Leavitt, Gould & Hurlbert, Colebrook Oats (Welcome)	S	99	S	98
6911	F. W. Neal & Co., Dover Oats (Ohio)	98.04	—	91.5	—
6788	Pike & Gale, Littleton Oats (Swedish Type, 073536)	S	98.36	S	96
6745	J. H. Seavey, Dover Oats (Swedish Type, 73331)	S	98.50	S	96
6769	Thompson & Hoague Co., Concord Oats (Pennant Brand)	S	99.50	S	98
6910	B. M. Varrell, Portsmouth Oats (Blue Seal)	S	97	S	90
6744	H. K. Webster Co., Colebrook Orchard Grass (37188)	S	91.50	78	90
6806	Thompson & Hoague Co., Concord Red Clover (Medium Pine Tree, 24290-91)	S	99.08	S	94
6810	Ayers & Jenkins, Rochester Red Clover	S	99	S	85
6872	P. W. Bragg, Farmington Red Clover (French, 26690)	S	99	89	—
6853	W. B. Brown, Ashland Red Clover (French, 6251)	S	99	S	90
6871	A. F. Burr Co., Plymouth Red Clover (Fullwerth Medium 7307) Chase Grain Mill, Plymouth	S	99.48	S	92
6900	Red Clover (Domestic Medium, 24437) G. B. Currier Co., Colebrook	S	99	S	94
6913	Red Clover (XX)	S	95	S	90
6747	Depot Store, Littleton Red Clover (Pan American, French) S. A. Dow & Son, North Hampton	S	98	S	90
6892	Red Clover (Liberty, 2486)	S	99	A	85.50
	Farmer's Grain Store, Ashland				

A=Above.

S=Satisfactory.

RESULTS OF SEED TESTS, 1928

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SEED EXAMINATION, 1928 — Continued.

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaranteed	F'nd	Guaranteed
6805	Red Clover (Pan American, French) E. C. Foss Co., Rochester	S	98.50	S	90
6833	Red Clover (Pan American)	S	98.50	S	90
6929	Hill Hdw. & Paint Co., Nashua				
6930	Red Clover (Medium White Mtn.)	S	99.25	S	92
6930	Holbrook Grocery Co., Woodsville				
6930	Red Clover (Special Domestic)	S	92.30	S	90
6947	Holbrook Grocery Co., Woodsville				
6947	Red Clover (Northern European, XXX)	S	99.80	S	90
6948	Holbrook Grocery Co., Keene				
6948	Red Clover (Domestic Medium)	S	97	S	90
6948	Holbrook Grocery Co., Keene				
6904	Red Clover (Ace Medium, 24444)	S	96.42	S	90
6959	H. G. Holton, Lancaster				
6959	Red Clover (Domestic Medium, 24294)	S	98	S	92
6959	Hopkins Brothers, Belcher Co., Greenfield				
6817	Red Clover (2487)	97.96	99	S	90
6857	J. Jones & Son, Alton				
6857	Red Clover (Pan American, Domestic)	S	98.50	S	90
6906	Keegan & French, Franklin				
6906	Red Clover (Ace)	S	98	S	93
6683	C. C. King Co., Whitefield				
6683	Red Clover (Ace, Domestic Medium, 241971)	S	98.90	S	93
6688	Manchester Hdw. Co. Manchester				
6688	Red Clover (Ace, French, 27480)	S	98	S	92
6713	Manchester Hdw. Co., Manchester				
6713	Red Clover (Domestic Medium, 2495)	S	99	S	93
6876	McQuesten & Lewis, Manchester				
6876	Red Clover (Domestic Medium, 24459)	S	99	S	95
6681	Meredith Grain Co., Meredith				
6681	Red Clover (Pine Tree, Domestic Medium)	S	99.32	S	95
6681	Merrimack Farmers' Exchange Manchester				
6710	Red Clover (Pan American)	S	98.50	S	90
6782	J. J. Moreau & Son, Manchester				
6782	Red Clover (Eureka Imported)	98.68	99.25	S	90
6790	F. W. Neal & Co., Dover				
6790	Red Clover (Pan American, Domestic)	96.20	98.50	S	90
6841	F. W. Neal & Co., Dover				
6841	Red Clover (Importer)	S	98	S	90
6822	W. F. Neal, Derry				
6822	Red Clover (Choice)	S	99	S	92
6921	W. F. Peel, Nashua				
6921	Red Clover (Domestic, Pan American)	S	99	S	90
6785	Pike & Gale, Littleton				
6785	Red Clover (Pan American, French)	S	98.50	S	90
6935	S. A. Schurman & Son, Portsmouth				
6935	Red Clover (Medium Domestic, 24469)	A	99	S	92
6728	Frank Smith Co., Lancaster				
6728	Red Clover (Medium, Ace, 24345)	S	98.38	S	92
6756	Thompson & Hoague Co., Concord				
6756	Red Clover	S	98	71	90
6659	A. J. Turcotte, Newmarket				
6659	Red Clover (Domestic Medium Pine Tree)	S	99.24	S	92
6666	John B. Varick Co., Manchester				
6666	Red Clover (Mammoth Native Pine Tree)	S	99.25	S	92
6666	John B. Varick Co., Manchester				

A=Above.

S=Satisfactory.

SEED EXAMINATION, 1928 — Continued.

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaranteed	F'nd	Guaranteed
6670	Red Clover (Mammoth Ace)	S	98	S	92
	John B. Varick Co., Manchester				
6908	Red Clover (Domestic Medium, 24299)	S	99.02	S	94
	H. K. Webster Co., Colebrook				
6814	Red Clover (Imported)	S	98	S	90
	E. T. Willson, Farmington				
6800	Red Top (Fancy Pine Tree, 30923)	A	92.50	S	90
	Ayers & Jenkins, Rochester				
6839	Red Top (Pan American)	S	92	75	90
	Bell Hardware Co., Derry				
6732	Red Top (Ace, Fancy)	A	90	S	92
	A. H. Britton, Concord				
6856	Red Top (Monadnock, 30744)	A	90	74	90
	W. B. Brown, Ashland				
6854	Red Top (R-T 6040)	A	93	S	92
	A. F. Burtt Co., Plymouth				
6719	Red Top (Pan American)	S	92	S	90
	Capitol Hardware Co., Concord				
6873	Red Top (7820)	A	92	S	90
	Chase Grain Mill, Plymouth				
6925	Red Top (Ace, Fancy, 30751)	S	91.50	S	90
	A. F. Clement & Son, Lisbon				
6768	Red Top	S	93	S	89
	R. L. Costello, Portsmouth				
6956	Red Top (Monadnock)	S	90	77	90
	J. Cushing Co., Peterboro				
6889	Red Top (Fancy, 2362)	A	93.80	S	90
	Farmers' Grain Store, Ashland				
6824	Red Top (Fancy Ace, 30714)	S	91	S	90
	Fessenden Co., Inc., Londonderry				
6767	Red Top (No. 1)	S	90	S	90
	Hilliard & Kimball, Exeter				
6950	Red Top (XX)	S	88	78.5	92
	Holbrook Grocery Co., Keene				
6894	Red Top (Ace, Fancy, 30964)	S	90.50	S	92
	H. G. Holton, Lancaster				
6818	Red Top (30208)	S	90	S	90
	J. Jones & Son, Alton				
6902	Red Top (XXX)	S	90	S	88
	C. C. King Co., Whitefield				
6700	Red Top (Fancy, 030111)	S	91.30	S	91
	Manchester Hdw. Co., Manchester				
6701	Red Top (Ace Fancy, 30866)	A	90.60	S	90
	Manchester Hdw. Co., Manchester				
6704	Red Top	S	88.90	S	90
	Manchester Hdw. Co., Manchester				
6852	Red Top (Fancy Pine Tree, 030420)	A	94.20	85	95
	Meredith Grain Co., Meredith				
6708	Red Top (Pan American)	S	92	S	90
	J. J. Moreau & Son, Manchester				
6777	Red Top (Pan American)	88.37	92	S	90
	F. W. Neal & Co., Dover				
6830	Red Top (No. 1)	S	90	S	90
	W. F. Peel, Nashua				
6831	Red Top (Pan American)	S	92	79	90
	W. R. Peterson Co., Nashua				
6881	Red Top (Pan American)	S	92	S	90
	Rand & Dearborn, Laconia				
6858	Red Top (Eureka)	A	94	66	90
	C. N. Roberts, Meredith				
6798	Red Top (No. 1)	S	90	74	90
	Strafford Co. Grain Mill, Rochester)				

A=Above.

S=Satisfactory.

SEED EXAMINATION, 1928 — Continued.

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaran- teed	F'nd	Guar- anteed
6729	Red Top (Ace, 30938)	S	92	S	90
	Thompson & Hoague Co., Concord				
6733	Red Top (Ace, 30767)	S	91.20	S	90
	Thompson & Hoague Co., Concord				
6757	Red Top (Choice)	S	90	S	96
	A. J. Turcotte, Newmarket				
6663	Red Top (Ace Fancy, 30925)	A	90	S	90
	John B. Varick Co., Manchester				
6664	Red Top (Ace Fancy, 30889)	A	90	S	90
	John B. Varick Co., Manchester				
6674	Red Top (Pine Tree Fancy, 30923)	S	93	S	92
	John B. Varick Co., Manchester				
6815	Red Top (Gem)	S	90	S	90
	E. T. Willson, Farmington				
6750	Red Top	A	90	S	90
	W. A. Young, Exeter				
6752	Red Top (Eureka)	93.98	96	S	90
	W. A. Young, Exeter				
6657	Rutabaga (St. Andrews)	S	98	54	88
	John B. Varick Co., Manchester				
6672	Rutabaga (Yellow Am. Purple Top)....	S	98	59.5	87
	John B. Varick Co., Manchester				
6763	Rye (Fancy Rosen)	S	98	81	90
	J. H. Griffin, Newmarket				
6958	Rye (King's Choice Rosen)	S	98	S	92
	Hopkins Bros., Belcher Co., Greenfield				
6780	Rye (White Rosen, 216264)	S	99	78.5	92
	Jenness Hardware Co., Dover				
6741	Rye, Spring (074314)	S	94.17	S	93
	Merrimack Farmers' Exchange Concord				
6709	Rye, Spring	S	98	73	90
	J. J. Moreau & Son, Manchester				
6838	Rye, Spring (74116)	S	93.97	69	80
	Nashua Grain Co., Nashua				
6779	Rye, Winter	S	98	79	92
	F. W. Neal & Co., Dover				
6680	Rye Spring (74304)	S	99	S	90
	John B. Varick Co., Manchester				
6695	Soy Beans	S	98	S	91
	Merrimack Farmers' Exchange Manchester				
6849	Soy Beans (Manchu)	S	99.50	S	85
	Merrimack Farmers' Exchange Derry				
6676	Soy Beans (Medium Green)	S	99	S	83
	John B. Varick Co., Manchester				
6738	Sweet Clover (White Blossom, 2594-95)	S	99	S	91
	Merrimack Farmers' Exchange Concord				
6650	Sweet Clover (White Blossom)	S	99	75.5	95
	John B. Varick Co., Manchester				
6803	Timothy (Pine Tree, 68072)	S	99.65	S	95
	Ayers & Jenkins, Rochester				
6967	Timothy (Liberty, 6165)	S	99.60	S	94.50
	P. E. Belisle, Hillsborough				
6811	Timothy	A	98	S	90
	P. W. Bragg, Farmington				
6874	Timothy (Pine Tree, 26690)	S	99.65	S	90
	W. B. Brown, Ashland				
6737	Timothy (Pine Tree, 66844)	S	99.60	A	84
	A. H. Britton, Concord				

A=Above.

S=Satisfactory.

SEED EXAMINATION, 1928 — Continued.

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaranteed	F'nd	Guaranteed
6720	Timothy (Pan American)	S	99.60	S	92
6796	Capitol Hardware Co., Concord Timothy (Liberty, 6093)	S	99.60	S	92
6867	Freeman Carson, Rochester Timothy (Liberty, 6179)	S	99.60	S	92
6885	Chase Grain Co., Plymouth Timothy (Matrix, 7511)	S	99.80	S	94
6926	Chase Grain Co., Plymouth Timothy	S	98	S	90
6886	A. F. Clement & Son, Lisbon Timothy (Pine Tree, 65984)	S	99.65	S	95
6909	G. G. Cummings, Bristol Timothy (Pine Tree, 67521)	S	99.65	S	93
6912	G. B. Currier Co., Colebrook Timothy (66904, XX)	A	98	S	91
6914	Depot Store, Littleton Timothy (White Mountain)	S	99.85	S	95
6915	Depot Store, Littleton Timothy (Liberty, 61061)	S	99.60	S	90
6916	Depot Store, Littleton Timothy (Gold Medal)	S	99.70	S	94
6748	Depot Store, Littleton Timothy (Pan American)	S	99.60	S	90
6944	S. A. Dow & Son, North Hampton Timothy (Freedom)	S	99.70	S	93
6945	Goodnow Bros. Co., E. Jaffrey Timothy (Monadnock, 67440)	S	99.60	S	94
6826	Goodnow Bros. Co., E. Jaffrey Timothy (Gem)	S	99.65	S	92
6832	Hill Hdw. & Paint Co., Nashua Timothy (Bay State)	S	99.60	S	95.94
6766	Hill Hdw. & Paint Co., Nashua Timothy (Pine Tree, 66313)	S	99.65	S	96
6793	Hilliard & Kimball, Exeter Timothy (Pine Tree, 68090)	S	99.65	S	95
6820	Jenness Hardware Co., Dover Timothy (Liberty)	S	99.60	S	92
6905	J. Jones & Son, Alton Timothy (Bison, 66368)	S	98.10	S	91
6952	C. C. King Co., Whitefield Timothy (Choice)	S	99	S	91
6899	J. H. Kiniry, Claremont Timothy (Pine Tree, 68175)	S	99.65	S	95
6971	Leavitt, Gould & Hurlbert, Colebrook)	S	99	S	93
6716	Timothy (XXX)	S	99.60	S	90
6717	Lewis Brothers, Lebanon Timothy (Pan American)	S	99.70	S	93
6698	Manchester Grain Co., Manchester Timothy (Freedom)	S	99.50	S	94
6699	Manchester Grain Co., Manchester Timothy (Pine Tree, 66201)	S	99.65	S	95
6702	Manchester Hdw. Co., Manchester Timothy (Pine Tree, 66103)	S	99.60	S	94
6715	Manchester Hdw. Co., Manchester Timothy (Pine Tree, 67948)	S	99.60	S	95
6696	McQuesten & Lewis, Manchester Timothy (Pine Tree, 67257)	S	99.65	S	94
	Merrimack Farmers' Exchange Manchester				

A=Above.

S=Satisfactory.

SEED EXAMINATION, 1928 — Continued.

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaranteed	F'nd	Guaranteed
6954	Timothy (White Mtn., 67575)	S	99.65	S	95
	Metcalf & Calahan, Walpole				
6707	Timothy (Pan American)	98.97	99.60	S	92
	J. J. Moreau & Son, Manchester				
6877	Timothy (Pine Tree, 68025)	S	99.60	S	95
	J. H. Morrill, Laconia				
6835	Timothy (Pan American)	S	99.60	S	92
	Nashua Grain Co., Nashua				
6840	Timothy (Imperator)	S	99	S	90
	W. F. Neal, Derry				
6845	Timothy (Bison, 65464)	A	98.76	S	94
	Parker Brothers, Goffstown				
6848	Timothy (Gem, 6065)	S	99.65	S	92
	Parker Brothers, Goffstown				
6962	Timothy (Pine Tree, 67881)	S	99.65	S	95
	C. A. Perkins, Charlestown				
6942	Timothy (Pine Tree, 68088)	S	99.65	S	95
	W. N. Potter & Son, Winchester				
6870	Timothy (Pan American)	S	99.60	S	92
	Rand & Dearborn, Laconia				
6864	Timothy (Gold Medal)	S	99.75	S	94
	C. N. Roberts, Meredith				
6883	Timothy (Pine Tree, 66803)	S	99.60	S	94
	H. C. Sanborn, Laconia				
6770	Timothy (Pan American)	S	99.60	S	92
	S. A. Schurman & Son, Portsmouth)				
6772	Timothy (Pine Tree, 67310)	S	99.65	S	94
	J. H. Seavey, Dover				
6887	Timothy (Gem)	S	98.70	S	94
	Shepard Grocery Co., Franklin				
6933	Timothy (Pine Tree, 67526)	S	99.65	S	94
	Frank Smith Co., Lancaster				
6934	Timothy (Pine Tree, 68216)	S	99.60	S	95
	Frank Smith Co., Lancaster				
6896	Timothy (Pine Tree, 67561)	S	99.60	S	94
	F. B. Spaulding Co., Lancaster				
6865	Timothy (Monadnock, 67430)	S	99.60	S	94
	C. P. Stevens Co., Franklin				
6879	Timothy (Pine Tree, 66552)	S	99.60	S	95
	C. P. Stevens Co., Franklin				
6799	Timothy (Bay State)	S	99.60	S	94
	Strafford Co. Grain Mill, Rochester)				
6734	Timothy (Pine Tree, 67533)	S	99.60	S	94
	Thompson & Hoague Co., Concord				
6735	Timothy (Pine Tree, 68111)	S	99.65	S	95
	Thompson & Hoague Co., Concord				
6758	Timothy	A	98	S	94
	A. J. Turcotte, Nemmarket				
6660	Timothy (Pine Tree, 67943)	S	99.60	S	94
	John B. Varick Co., Manchester				
6662	Timothy (Pine Tree, 68091)	S	99.60	S	94
	John B. Varick Co., Manchester				
6665	Timothy (Durham, 66937)	S	99.60	S	94
	John B. Varick Co., Manchester				
6675	Timothy (Jersey, 68039)	S	98	S	91
	John B. Varick Co., Manchester				
6677	Timothy (Jersey, 67920)	A	98	S	91
	John B. Varick Co., Manchester				
6901	Timothy (Pine Tree, 68019)	S	99.60	S	95
	H. K. Webster Co., Colebrook				
6940	Timothy	A	99	S	98
	D. Whiting and Son, Milford				

A=Above.

S=Satisfactory.

SEED EXAMINATION, 1928 — Continued.

Sample No.	Kind of Seed, Brand, Name and Address of Dealer	Purity		Germination	
		F'nd	Guaranteed	F'nd	Guaranteed
6816	Timothy (Gem, 6065)	A	98	A	90
6749	E. T. Willson, Farmington Timothy (Pine Tree, 63847)	S	99.60	S	95
6882	W. A. Young, Exeter Vetch Spring	S	98	S	90
6907	Keegan & French, Franklin Wheat, Spring (Marquis)	S	98	S	90
6931	C. B. Currier Co., Colebrook Wheat, Spring (Monadnock)	S	99	S	92
6742	Holbrook Grocery Co., Woodsville Wheat (Marquis type, 75321)	S	98.50	S	96
6694	Merrimack Farmers' Exchange Concord Wheat Spring	S	98	67	90
6862	J. J. Moreau & Son, Manchester White Clover (2496)	S	97.20	S	87
6731	A. F. Burt Co., Plymouth White Clover (Choice)	S	96	S	90
6689	Capitol Hardware Co., Concord White Clover (Choice)	S	96	S	90
6787	J. J. Moreau & Son, Manchester White Clover (26306)	S	95.25	S	95
6722	J. H. Seavey, Dover White Clover (26459-60)	S	95.75	A	90
6723	Thompson & Hoague Co., Concord White Clover (26392)	S	92.50	S	92
6668	Thompson & Hoague Co., Concord White Clover (Fancy)	S	95	A	85
	John B. Varick Co., Manchester				

A=Above.

S=Satisfactory.

SUMMARY TABLE
 Showing General Results of Seed Inspection Work
 for the year ending June 30, 1928

Kind of Seed	Number of Samples	Purity Compared to Guarantee			Germination Compared to Guarantee			No Guarantee
		Above	Satisfactory	Below	Above	Satisfactory	Below	
Alfalfa	9	0	9	0	0	8	1	0
Alsike	29	4	21	4	2	25	2	0
Barley	13	0	12	1	0	13	0	0
Bluegrass, Kentucky	4	0	4	0	0	3	1	0
Buckwheat	3	0	3	0	0	3	0	0
Canada Field Peas	2	0	2	0	0	2	0	0
Corn	4	0	4	0	0	4	0	0
Mangles	2	0	2	0	0	2	0	0
Millet	58	10	36	12	0	37	20	0
Oats	16	0	14	2	0	14	0	0
Red Clover	40	1	36	3	1	37	1	2
Red Top	37	12	23	2	0	29	8	1
Rutabaga	2	0	2	0	0	2	0	0
Rye	8	0	8	0	0	3	5	0
Soy Beans	3	0	3	0	0	3	0	0
Sweet Clover	2	0	2	0	0	1	1	0
Timothy	68	7	60	1	2	66	0	0
Wheat	4	0	4	0	0	3	1	0
White Clover	7	0	7	0	2	5	0	0
Miscellaneous	3	1	2	0	0	2	1	0
	314	35	254	23	8	258	45	3



~~PAS~~

~~630.72~~

~~N532~~

~~no. 233-250~~

